Javier V. Gómez, M.Sc.

Robotics and Artificial Intelligence R&D

	Highlights
	 Ph.D. student focusing on robotics and artificial intelligence.
	 Visiting Student Researcher at Stanford University.
	- Bachelor's GPA: 3.14, Master's GPA: 3.98 (best academic record award).
	- Collaborated with many researchers all around the world: Portugal, Norway,
	Germany, Greece, U.S., United Arab Emitares, etc.
	- Promoter and participant of Open and Free Source Software projects.
	Tromoter and participant of Open and free Source Software projects.
	Current Occupation
Position held	Research assistant, Ph.D. candidate, advisor: Prof. Luis Moreno.
Start date	June 2011
Main activities	Path planning, meta-heuristic optimization and environment modelling research.
Institution - Employer	RoboticsLab, Carlos III University of Madrid. Avda. de la Universidad 30, 28911, Leganés. Madrid,
Sector	Spain. Academic research
Seciol	FPU scholarship holder from September 2014 (Spanish government scholarship for PhD students
Notes	given to excellent academic records)
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	Work Experience
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Position held	Visiting Student Researcher, advisor: Dr. Marco Pavone.
Dates	September 2014 – December 2014
Main activities	Research and development of sampling-based path planning techniques.
Institution	Autonomous Systems Laboratory, Aeronautics - Astronautics Dept. Stanford University, CA, USA.
Sector	Academic research
	Free and Onen Course Coffware Developer
Position held	Free and Open Source Software Developer, mentors: loan Sucan, Mark Moll
Dates	June 2014 – August 2014
Main activities	 Develop a C++ multi-threaded algorithm to boost optimal path planning algorithms
	(CForest).
	 Study the implementation of optimal path planning algorithms taking into account kinematic contraints.
Institution	Open Motion Planning Library (OMPL) – Google Summer of Code 2014
Sector	Open source oftware development.
Occioi	Open source orware development.
Position held	Invited Research Assistant, advisor: Dr. Nikolaos Mavridis.
Dates	March 2013 – July 2013
Main activities	Research and development of advanced path planning techniques.
Institution	RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece.
Sector	Academic research
Position held	Type Approval Technician
Position neto Dates	December 2007 – August 2010.
Main activities	Study and carry out the steps needed to obtain European vehicles type approvals.
Employer	ANT, S.L. 1, Avda. de la Vega, 28108, Alcobendas. Madrid, Spain.
Sector	Automotive industry.
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	Academic Education
Degree	Master program in Robotics and Automation. Avg. Score: 9.7 over 10 Best academic record award.
Dates	September 2011 – November 2012
Principal subjects covered	- Wide knowledge of robotics fields.
	- Introduction to research into robotics.
Institution	- Artificial intelligence, control, mobile robots, humanoids, optimization, computer vision, etc. Carlos III University of Madrid, Avda. De la Universidad 30, 28911, Leganés, Madrid. Spain.
montation	Outloo III Offivoroity of Madrid, Avad. Do la Offivoroidad do, 20011, Logarido, Madrid. Opairi.
Degree	Bachelor's Final Project: Intelligent outdoor light sampling strategy to geolocate stationar
Dates	objects. Advisor: Prof. Frode Eika Sandness September 2010 – December 2010
Topic and environment	Design and implement a intelligent system capable of geolocate itself by sampling sunlight
	intensity.
	- Erasmus scholarship.
	- International and multidisciplinary teamwork subjects.
Institution	 English language. Oslo and Akershus University College of Applied Sciences.P.O. Box 4 St. Olavs plass, N0130
เทอแนนบท	Oslo, Norway.
Additional information	I continued this project after the Erasmus program. This led to a publication in a top scientific
	journal.
Degree	Electronics and Automation Egineer. Avg Score 7.57 over 10 (Top 10%)
Dates	September 2007 – June 2010
Principal subjects covered	- Electronics.
	- Automation and control.
	- Software engineering.
	- Robotics.
	- Rusings and production
Institution	Business and production. Polytechnic University of Madrid, 3, Ronda de Valencia, 28012, Madrid, Spain. Polytechnic University of Madrid, 3, Ronda de Valencia, 28012, Madrid, Spain.
Institution	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain.
Institution	
Mother tongue	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish
Mother tongue Other languages	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English
Mother tongue Other languages Self-assessment	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Writing
Mother tongue Other languages	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction Spoken production
Mother tongue Other languages Self-assessment	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C1 Proeficient user
Mother tongue Other languages Self-assessment	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction Spoken production
Mother tongue Other languages Self-assessment European Level (*)	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Common European Framework of Reference for Languages - Team worker.
Mother tongue Other languages Self-assessment European Level (*)	Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user (*) Common European Framework of Reference for Languages - Team worker Easy going.
Mother tongue Other languages Self-assessment European Level (*)	Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience
Mother tongue Other languages Self-assessment European Level (*)	Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user B2 Independent user C1 Proeficient user C2 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Proeficient user C9 P
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Mother tongue Other languages Self-assessment European Level (*) Social skills and competences	Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work.
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Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and	Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions.
Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and	Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues.
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Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences	Personal Skills and Competences Spanish English Understanting Speaking Writing Listening Reading Spoken interaction Spoken production B2 Independent user C1 Proeficient user B2 Independent user B2 Independent user C1 Proeficient user (*) Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions Fast and self-learning. - Good command of MS Office, LibreOffice, LaTeX and BibTex tools Good command of AutoCAD and OpenSCAD Advanced programming skills in C/C++ and C++11. Beginner in CUDA.
Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences Computer skills and	Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions Fast and self-learning. - Good command of MS Office, LibreOffice, LaTeX and BibTex tools Good command of AutoCAD and OpenSCAD.

LISP. HTML. XML. Good command of Matlab/Simulink. Wide experience with MS Windows and Linux (Ubuntu mainly). Robotics Operating System (ROS), Movelt!, Point Cloud Library (PCL), OpenCV, Cimg, Magick++, Boost, OpenGL, etc. Very high motivation about technology and research. Other skills and Always trying to learn. competences Trying to apply the knowledge to improve the world. Promoter of Open Source works. Driving license Category B. **Participation in Research Projects DEX-ARM:** Learning and Planning Dexterous Manipulation Techniques for Mobile Manipulators. Principal researcher: Prof. Dr. Luis Enrique Moreno Lorente Carlos III University of Madrid http://roboticslab.uc3m.es/roboticslab/proyecto.php?id proy=49 Duration: 01/06/2011 – currently. HYPER: Hybrid Neuroprosthetic and Neurorobotic Devices for Functional Compensation and Rehabilitation of Motor Disorders. Principal researcher: Prof. Dr. M.D. José Luis Pons. Carlos III University of Madrid http://www.car.upm-csic.es/bioingenieria/hyper/ Duration: 01/06/2011 - 30/04/2013 (22 months).

List of Publications

Journals (JCR Indexed):

- D. Álvarez, J.V. Gómez, S. Garrido and L. Moreno, 3D Robot Formations Planning With Fast Marching Square. Journal of Intelligent and Robotic Systems. Accepted December 2014.
- J. Pardeiro, J. V. Gómez, A. Brunete and F. E. Sandnes, Sunlight-based Positioning Optimization for Sensor Networks using Evolutionary Algorithms. International Journal of Distributed Sensor Networks. Accepted November 2014.
- J. V. Gómez, D. Álvarez, S. Garrido and L. Moreno, Deterministic, Globally Stable Motion Learning with Fast Marching Square. Submitted to Robotics and Autonomous Systems.
- J.V. Gómez, A. Vale, S. Garrido and L. Moreno, Performance analysis of Fast Marching-based motion planning for autonomous mobile robots in ITER scenarios, Robotics and Autonomous Systems, accepted Sep. 2014.
- A. Valero, J. V. Gómez, S. Garrido and L. Moreno. Fast Marching Methods in Path Planning. IEEE Robotics and Automation Magazine. Vol. 20, No. 4, 2013.
- J. V. Gómez, S. Garrido, L. Moreno and P. U. Lima, General Path Planning Methodology for Leader-Followers based Robot Formations, International Journal of Advanced Robotic Systems, Vol. 10, No. 64, pp. 1 10, 2013.
- J. V. Gómez, A. Lumbier, S. Garrido and L. Moreno. Robot Formations Planning Working Under Uncertainty Conditions Using Fast Marching Square. Robotics and Autonomous Systems, Vol. 61, pp. 137–152, 2013.
- J. V. Gómez, F. E. Sandnes and B. Fernández. Sunlight Intensity Based Global Positioning System for Near-Surface Underwater Sensors . Sensors, Vol. 12, No. 2, pp. 1930 1949, 2012.

International Conferences:

- D. Álvarez, J.V. Gómez, S. Garrido and L. Moreno, 3D Robot Formations Planning With Fast Marching Square, IEEE International Conference on Autonomous Robot Systems and Competitions (IEEE ICARSC, ROBOTICA14). Espinho, Portugal. May, 2014.
- J.V. Gómez, N. Mavridis and S. Garrido, Social Path Planning: Generic Human-Robot Interaction Framework for Robotic Navigation Tasks, Cognitive Robotics Systems: Replicating Human Actions and Activities, Workshop of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'13). Tokyo, Japan. November, 2013.
- J. Pardeiro, J.V. Gómez, D. Álvarez and L. Moreno, Learning-based Floor Segmentation and Reconstruction, Iberian Robotics Conference (ROBOT2013). Madrid, Spain. November, 2013.
- J.V. Gómez, S. Garrido and L. Moreno, How to deal with difficulty and uncertainty in the Outdoor Trajectory Planning with Fast Marching, Iberian Robotics Conference (ROBOT2013). Madrid, Spain. November, 2013.
- J.V. Gómez, D. Álvarez, S. Garrido and L. Moreno, Improving Sampling-based Path Planning Methods with Fast Marching, Iberian Robotics Conference (ROBOT2013). Madrid, Spain. November, 2013.
- D. Álvarez, A. Lumbier, J.V. Gómez, S. Garrido and L. Moreno, Precision Grasp Planning with Gifu Hand III based on Fast Marching Square, IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2013. Tokyo, Japan. November, 2013
- A. Tanoto, J. V. Gómez, N. Mavridis, H. Li, U. Rückert, S. Garrido, Teletesting: Remote Path Planning Experimentation and Benchmarking in the TeleWorkbench, IEEE European Conference on Mobile Robots (ECMR 2013). Barcelona, Spain. September, 2013.
- D. Álvarez, A. Lumbier, J.V. Gómez, S. Garrido and L. Moreno, Precision Grasp Planning Based on Fast Marching Square, Mediterranean Conference on Control and Automation, MED 2013, Chania, Greece. June, 2013.
- J.V. Gómez, A. Vale, F. Valente, J. Ferreira, S. Garrido and L. Moreno, Fast Marching in Motion Planning for Rhombic like Vehicles Operating in ITER, IEEE International Conference on Robotics and Automation, ICRA 2013. Karlsruhe, Germany. May, 2013.
- N. Giakoumidis, J.U Bak, J.V. Gómez, A. Llenga and N. Mavridis, Pilot-Scale Development of a UAV-UGV Hybrid with Air-Based UGV Path Planning. International Conference on Frontiers of Technology, FIT 2012. Islamabad, Pakistan. December 2012.
- T. Varvadoukas, E. Giannakidou, J.V. Gómez and N. Mavridis, Indoor Furniture and Room Recognition for a Robot using Internet-derived Models and Object Context, International Conference on Frontiers of Technology, FIT 2012. Islamabad, Pakistan. December 2012.
- J.V. Gómez, D. Álvarez, S. Garrido, L. Moreno, Kinesthetic Teaching via Fast Marching Square, IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2012. Vila Moura, Portugal. October, 2012
- J.V. Gómez, F.E. Sandnes and B. Fernández, SGPS Project: Open Source Global Positioning System for Individuals with Reduced Orientation and Navegation Abilites. International Conference on Software Development for Enhacing Accessibility and Fighting Info-exclusion, DSAI 2012. Douro Region. Portugal. July, 2012.
- J. V. Gómez and F. E. Sandnes, RoboGuideDog: Guiding Blind Users Through Physical Environments with Laser Range Scanners. International Conference on Software Development for Enhacing Accessibility and Fighting Info-exclusion, DSAI 2012. Douro Region. Portugal. July, 2012.
- C. Arismendi, J. V. Gómez, S. Garrido and L. Moreno. Adaptive Evolutionary Strategy for Robotic Manipulation. IEEE Conference on Evolving and Adaptive Intelligent Systems, EAIS 2012. Madrid. Spain. May, 2012.

- J. V. Gómez, C. Arismendi, S. Garrido and L. Moreno. On Path Planning: Adaptation to the Environment using Fast Marching. IEEE Conference on Evolving and Adaptive Intelligent Systems, EAIS 2012. Madrid. Spain. May, 2012.
- J. V. Gómez, S. Garrido and L. Moreno. Adaptive Robot Formations Using Fast Marching Square Working Under Uncertainty Conditions. IEEE Workshop on Advanced Robotics and its Social Impacts, ARSO 2011. San Francisco, CA - EEUU. Oct, 2011.

Talks and National Conferences:

- J. V.Gómez, Motion Learning with Fast Marching,ICRA 2013: Workshop on Motion Planning for Mobile Manipulation: State-of-the-art Methods and Tools. Karlsruhe, Germany. May, 2013
- J. Pardeiro, J. V. Gómez, D. Álvarez, L. Moreno, Estimación de Suelos Navegables para Interiores. 11th Workshop Robocity 2030: Robots personales y asistenciales. Madrid, Spain. March, 2013.
- J. V. Gómez, SGPS y la Ciencia Abierta. Linuxec events at Universidad Pontificia Comillas. Madrid, Spain. October 2012.
- J. V. Gómez, Open Science: caso SGPS. Open Source Hardware Convention (OSHWCON 2012). Madrid, Spain. Sep, 2012.
- J. V. Gómez, S. Garrido, L. Moreno, A. Vale, F. Valente, J. Ferreira, Estudio de Funcionamiento del Algoritmo FM2 Aplicado al ITER. 2º Workshop Programa Technofusión. Madrid, Spain. June, 2012.
- S. Garrido, L. Moreno, P. Lima and J. V. Gómez. Robot Formations Motion Planning using Fast Marching. Robot 2011. Sevilla. Spain. Nov, 2011.
- J.V. Gómez, F. E. Sandnes and B. Fernández. Sistema de localización en exteriores abierto y libre basado en propiedades de la luz solar. Open Source Hardware Convention (OSHWCON 2011). Madrid, Spain. Sep, 2011.

Book Chapters:

- S. Garrido, L. Moreno, J.V. Gómez, Motion and Operation Planning of Robotics System: Background and Practical Approaches. Chapter: Motion Planning using Fast Marching Square Method. Springer. To be published
- J. Pardeiro, J. V. Gómez, D. Álvarez, L. Moreno, Robots personales y asistenciales. Chapter: Estimación de Suelos Navegables para Interiores. To be published.
- J.V. Gómez, S.Garrido, L. Moreno, A. Vale, F. Valente, J. Ferreira, 2nd Workshop on Fusion Technologies and the Contribution of TECHNOFUSIÓN. Chapter: Performance Study of the FM2 Planning Method for Remote Handling Operations in ITER. ISBN: 978-84-695-6616. Sección de Publicaciones de la UC3M. 2012.

	Additional Information
Academic experience	 FCT (Fundação para a Ciência e a Tecnologia) project reviewer, 2012 call. Thesis advisor of 6 undergraduate student. Ongoing advising: 10 undergraduate students and 2 master students. Committee of 1 undergraduate thesis. ICRA 2015 reviewer.
Other experience	 Successfully participated in the Google Summer of Code 2014, project: Implementation of C-Forest, Bidirectional FMT and their combination in the Open Motion Planning Library. Spanish Red Cross volunteer (2006 – 2009) in medical emergencies.
Courses and Seminars	 Neuronal Dynamics by Wulfram Gerstnet (EPFL). Score 85% homework, 51% course (2014). Principles of Written English by Maggie Sokolik (Berkeley). Score 95% (2014). Maximize your mind by Blanca Torres et al. at MiriadaX. Score 100% (2014). Using std::cpp (http://www.arcos.inf.uc3m.es/~cpp-day/) (UC3M) (2013). Seminar on Semantic Perception by Oscar Martínez Mozos (University of Lincoln) (2013). International Research-centered Summer School in Cognitive Systems and Interactive Robotics, Social Media and Digital Preservation: http://irss.iit.demokritos.gr/(NCSR Demokritos) (2013) 3rdIRML Summer School in the New York University of Abu Dhabi (2012). Programming a Robotic Car by Sebastian Thrun (Standford) at Udacity. Score 100% (2012). Artificial Intelligence Class by Sebastian Thrun and Peter Norving (Standford) at Udacity. Score 85.4%. (2011). Machine Learning Class by Andrew Ng (Standford) at Coursera. Score 100%. (2011). Robotics and Transport, Athens Programme at Polytechnic University of Madrid (2011).
Awards	 Excellence award to the best academic record in the Robotics and Automation Master's program. 2nd best project award at IRSS 2013. Excellence award to the best academic record in Madrid in the pre-university technical studies.
Memberships	 IEEE student member (since 2011). Comité Español de Automática, CEA (since 2011).
	Annexes
	Personal website (with more detailed information): http://www.javiervgomez.com YouTube Channel: http://www.youtube.com/user/ingjotauve Personal Github repository: https://github.com/jygomez Biicode users (http://www.biicode.com/): jotauve , jygomez Google scholar profile: <a href="http://scholar.google.com/citations?user=uENYWfYAAAAJ Founder of the SGPS project open source community: http://sgpsproject.sourcefoge.net/wiki